

## **Biographical Sketch**

### **Marlos Goes**

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### **(a) Professional Preparations:**

<i>Educational Institution</i>	<i>Major</i>	<i>Degree</i>	<i>Degree Year</i>
University of Campinas, Brazil	Physics	B.Sc / Licenciate	1999
University of Sao Paulo, Brazil	Oceanography	M.Sc.	2001
University of Reading, UK	Oceanography	Doctorate fellow	2005
University of Sao Paulo, Brazil	Oceanography	Ph.D.	2006
Penn State University, USA	Climate studies	Post-doc.	2009

### **(b) Appointments:**

2010 - present	Assistant Research Scientist, Cooperative Institute for Marine and Atmospheric Studies, University of Miami.
2009-2010	Oceanographic Consultant, Applied Science Associate, Sao Paulo, Brazil.
2007-2009	Post-doctoral fellow, The Pennsylvania State University.
2007	Visitor Scientist, POGO-SCOR scholarship, University of Maryland.
2004-2005	Visitor research Assistant, CAPES scholarship, University of Reading, UK.
2000-2006	Graduate Research Assistant, University of Sao Paulo, Brazil.

### **(c) Publications**

**Peer-Reviewed publications:** 13; **H-index:** 6.0 (source: [www.researcherid.com](http://www.researcherid.com))

#### **Recent publications:**

**Goes, M.**, I. Wainer, N. Signorelli, 2014: Investigation of the causes of historical changes in the sub-surface salinity minimum of the South Atlantic, submitted to *J. Geophys. Res.-Oceans*.

**Goes, M.**, G. Goni, S. Dong (2013), An optimal XBT-based monitoring system for the Atlantic meridional transport at 34°S, Submitted to *J. Atmos. Ocean. Tech.*

**Goes, M.**, G. Goni, V. Hormann, R. Perez (2013), Variability of the Atlantic off-equatorial eastward currents during 1993-2010 using a synthetic method, *J. Geophys. Res.*, 118 (6), 3026-3045, doi: 10.1002/jgrc.20186.

**Goes, M.**, G. Goni, K. Keller (2013), Reducing biases in XBT measurements by including discrete information from pressure switches, *J. Atmos. Ocean. Tech.*, 30, 810-824, doi:10.1175/JTECH-D-12-00126.1.

Wainer, I., **M. Goes**, L. N. Murphy, and E. Brady (2012), Changes in the Water Mass Formation Rates in the Global Ocean for the Last Glacial Maximum, Mid-Holocene and Pre-Industrial Climates, *Paleoceanography*, Vol. 27, PA3101, doi:10.1029/2012PA002290.

- Olson, R., R. Sriver, **M. Goes**, N. M. Urban, H. D. Matthews, M. Haran, and K. Keller (2012), A climate sensitivity estimate using Bayesian fusion of instrumental observations and an Earth System model, *J. Geophys. Res.*, 117, D04103, doi:10.1029/2011JD016620.
- Sriver, R. L., **M. Goes**, M. E. Mann, and K. Keller (2010), Climate response to realistic tropical cyclone-induced ocean mixing in an Earth system model of intermediate complexity, *J. Geophys. Res.-Oceans*, doi:10.1029/2010JC006106.
- Goes**, M., Urban, N. M., Tonkonojenkov, R., Haran, M., Schmittner, A., and Keller, K. (2010), What is the skill of ocean tracers in reducing uncertainties about ocean diapycnal mixing and projections of the Atlantic Meridional Overturning Circulation?, *J. Geophys. Res.*, doi:10.1029/2010JC006407.
- Bhat, K.S., Haran, M., and **M. Goes** (2010), Computer model calibration with multivariate spatial output, in "Frontiers of Statistical Decision Making and Bayesian Analysis", eds. M-H. Chen et al., New York: Springer-Verlag, 2010.

#### **(d) Synergistic activities**

Presenter at the *NOAA/AOML Open House* for the local schools and general public, May 24, 2013.

Member of the XBT international science team.

Member of the AOML's *Buoys and Gulls* employee organization (2012-present).

Reviewer for: Research proposals (NOAA, FACEPE/Brazil), and research articles (*J. Geophys. Res.*, *Climatic Change*, *Geophys. Res. Lett.*, *J. Atmos. Ocean Tech.*, *Earth System Dyn.*).

#### **(e) Collaborators & Other Affiliations**

##### **Collaborators:**

Gustavo Goni (NOAA/AOML), Shenfu Dong (CIMAS), George Halliwell (NOAA/AOML), Molly Baringer (NOAA/AOML), Lisa N. Murphy (U. Miami), Renellys Perez (U. Miami), Verena Hormann (U. Miami), Klaus Keller (Penn State), Nancy Tuana (Penn State), Ryan Sriver (Penn State), Nathan M. Urban (Princeton), Roman Olson (Penn State), Michael E. Mann (Penn State), Murali Haran (Penn State), Andreas Schmittner (Oregon State U.), Ilana Wainer (U. Sao Paulo).